

June 21, 2019

Jkh Usa, LLC Bill Quanqin Dai, PhD Manager 1142 S. Diamond Bar Blvd, #861 Diamond Bar, California 91765

Re: K191151

Trade/Device Name: JKH Stimulator Plus Regulation Number: 21 CFR 882.5890

Regulation Name: Transcutaneous Electrical Nerve Stimulator For Pain Relief

Regulatory Class: Class II

Product Code: NUH, NGX, NYN, GZJ, IPF, IRT

Dated: May 14, 2019 Received: May 23, 2019

Dear Dr. Bill Quanqin Dai:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at <a href="https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm">https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm</a> identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you; however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see <a href="https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products">https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products</a>); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <a href="https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems">https://www.fda.gov/medical-device-problems</a>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<a href="https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance</a>) and CDRH Learn (<a href="https://www.fda.gov/training-and-continuing-education/cdrh-learn">https://www.fda.gov/training-and-continuing-education/cdrh-learn</a>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<a href="https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice</a>) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

for Vivek Pinto, PhD
Assistant Director, Acute Injury Devices Team
DHT5B: Division of Neuromodulation
and Rehabilitation Devices
OHT5: Office of Neurological
and Physical Medicine Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

# DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

# **Indications for Use**

Form Approved: OMB No. 0910-0120 Expiration Date: 06/30/2020

Expiration Date: 06/30/2020 See PRA Statement below.

510(k) Number *(if known)* K191151

Device Name JKH Stimulator Plus

Indications for Use (Describe)
Over-The-Counter Use:

#### TENS:

PL-029K5BL, PL-029K15, and PL-029T are used for temporary relief of pain associated with sore and aching muscles in the shoulder, waist, back, arm, and leg, due to strain from exercise or normal household and work activities.

PL-029K5BL, PL-029K15, and PL-029T are also intended for symptomatic relief and management of chronic, intractable pain and relief of pain associated with arthritis.

The device of PL-029K5BL and PL-029K15 may be used during sleep. The device of PL-029K5BL and PL-029K15 is labeled for use only with its own compatible electrodes.

#### PMS:

PL-029K5BL, PL-029K15, and PL-029T are used to stimulate healthy muscles in order to improve and facilitate muscle performance. To be used for the improvement of muscle tone and firmness, and for strengthening muscles in the arms, abdomen, legs, and buttocks. Not intended for use in any therapy or for the treatment of any medical conditions or diseases.

PL-029K5BL, PL-029K15, and PL-029T are also intended to temporarily increase local blood circulation in the healthy muscles of lower extremities.

#### Heating:

The device of PL-029T is intended for temporary relief of minor aches and pains.

Prescription Use:

#### TENS:

PL-029K5BL, PL-029K15, and PL-029T are intended for the following use:

- Symptomatic relief and management of chronic, intractable pain
- Adjunctive treatment for post-surgical and post-trauma acute pain
- Relief of pain associated with arthritis

#### PMS:

PL-029K5BL, PL-029K15, and PL-029T are intended for the following use:

- Temporary relaxation of muscle spasm
- Prevention or retardation of disuse atrophy
- Muscle re-education
- Maintaining or increasing range of motion
- Increase of local blood flow in the treatment area
- Prevention of post-surgical venous thrombosis through immediate stimulation of calf muscles

Type of Use (Select one or both, as applicable)				
Prescription Use (Part 21 CFR 801 Subpart D)	Over-The-Counter Use (21 CFR 801 Subpart C)			

#### CONTINUE ON A SEPARATE PAGE IF NEEDED.

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# K191151

# 510(k) Summary

This 510(k) Summary of safety and effectiveness information is being submitted in accordance with the requirements of 21 CFR 807.92.

## 1. Submitter's Information

Submitter: JKH USA, LLC

Mailing Address: 1142 S. Diamond Bar Blvd, #861, Diamond Bar, CA 91765

Contact Person: Dr. Bill Quangin Dai

Tel: 909-929-9896

Email: Bill@jkhUSA.com Date of Preparation: 04/26/2019

# 2. Subject Device

Trade/Device Name: JKH Stimulator Plus

Common Name: Transcutaneous Electrical Nerve Stimulation (TENS) unit, Powered Muscle

Stimulation (PMS) unit, and heating for pain relief, blood circulation, and muscle performance

Regulation Medical Specialty: Neurology

Review Panel: Neurology

Product Code: NUH, NGX, NYN, GZJ, IPF, IRT

Regulation Number: 21 CFR 882.5890

Device Class: II

Use: Over-The-Counter (OTC) and Prescription

#### 3. Predicate device

Trade Name: JKH Stimulator Plus

510(k) Number: K182203

Clearance Date: March 14, 2019 Submitter: JKH USA, LLC

## 4. Description of Subject Device

The subject device delivers electric pulses generated to the user's body areas such as the back neck and foot through the electrodes. The devices include operating elements, such as the ON/OFF button, intensity increase button, and intensity decrease button, and could be attached and detached to electrodes. The device has multiple program modes of different pulse frequencies, covering TENS and PMS that is also called Electrical Muscle Stimulation (EMS). In addition, the device may also provide heat/temperature. While used in the heating mode, the device is coupled with electronically controlled electrodes to provide automatic thermal heat to the skin with the maximum temperature of 43 °C for temporary relief of minor aches and pains.

The device could be easily operated through its buttons to manually realize its functions, such as turning on/off and increasing/decreasing intensity, providing heat/temperature and displaying/burning calories if needed. The optional wireless control via a remote or Bluetooth APP could provide a secondary operation way to the user, who could be able to wirelessly realize the functions mentioned above.

The electrodes cleared include the electrode patches/pads and electrode garments, which could be packaged together with the 510(k)-cleared devices or packaged separately as the replacement electrodes for 510(k)-cleared devices. The exact percentage of ingredients used in the biocompatible

electrode patch/pad is withheld as the trade secret and may be disclosed as requested.

#### 5. Indications for Use

Over-The-Counter Use:

#### TENS:

PL-029K5BL, PL-029K15, and PL-029T are used for temporary relief of pain associated with sore and aching muscles in the shoulder, waist, back, arm, and leg, due to strain from exercise or normal household and work activities.

PL-029K5BL, PL-029K15, and PL-029T are also intended for symptomatic relief and management of chronic, intractable pain and relief of pain associated with arthritis.

The device of PL-029K5BL and PL-029K15 may be used during sleep. The device of PL-029K5BL and PL-029K15 is labeled for use only with its own compatible electrodes.

#### PMS:

PL-029K5BL, PL-029K15, and PL-029T are used to stimulate healthy muscles in order to improve and facilitate muscle performance. To be used for the improvement of muscle tone and firmness, and for strengthening muscles in the arms, abdomen, legs, and buttocks. Not intended for use in any therapy or for the treatment of any medical conditions or diseases.

PL-029K5BL, PL-029K15, and PL-029T are also intended to temporarily increase local blood circulation in the healthy muscles of lower extremities.

# Heating:

The device of PL-029T is intended for temporary relief of minor aches and pains.

Prescription Use:

#### TENS:

PL-029K5BL, PL-029K15, and PL-029T are intended for the following use:

- Symptomatic relief and management of chronic, intractable pain
- Adjunctive treatment for post-surgical and post-trauma acute pain
- Relief of pain associated with arthritis

#### PMS:

PL-029K5BL, PL-029K15, and PL-029T are intended for the following use:

- Temporary relaxation of muscle spasm
- Prevention or retardation of disuse atrophy
- Muscle re-education
- Maintaining or increasing range of motion
- Increase of local blood flow in the treatment area
- Prevention of post-surgical venous thrombosis through immediate stimulation of calf muscles

# 6. Summary of Substantial Equivalence

The following comparison Table 1 summarizes the comparison between the subject device and the predicate device, indicating the intended use and technical characteristics of the subject device are

substantially equivalent to those of the predicate device.

Table 1. Comparison between the subject device and the predicate device

Parameter & Predicate Device(s)	Subject Device	Predicate Device
510(k) Number	K191151	K182203
Submitter/Manufacturer	JKH USA, LLC	JKH USA, LLC
Device Name/Model	JKH Stimulator Plus, PL-029K5BL, PL-029K15, and PL-029T	JKH Stimulator Plus, PL-029K12 and PL-029K13
Intended Use	Over-The-Counter Use:	Over-The-Counter Use:
	TENS: PL-029K5BL, PL-029K15, and PL-029T are used for temporary relief of pain associated with sore and aching muscles in the shoulder, waist, back, arm, and leg, due to strain from exercise or normal household and work activities.	TENS: PL-029K12 and PL-029K13 are used for temporary relief of pain associated with sore and aching muscles in the shoulder, waist, back, arm, and leg, due to strain from exercise or normal household and work activities.
	PL-029K5BL, PL-029K15, and PL-029T are also intended for symptomatic relief and management of chronic, intractable pain and relief of pain associated with arthritis.	PL-029K12 and PL-029K13 are also intended for symptomatic relief and management of chronic, intractable pain and relief of pain associated with arthritis.
	The device of PL-029K5BL and PL-029K15 may be used during sleep. The device of PL-029K5BL and PL-029K15 is labeled for use	The device of PL-029K12 may be used during sleep. The device of PL-029K12 is labeled for use only with its own compatible electrodes.
	only with its own compatible electrodes.  PMS:	PMS: PL-029K12 and PL-029K13 are used to stimulate healthy muscles in order to improve
	PL-029K5BL, PL-029K15, and PL-029T are used to stimulate healthy muscles in order to improve and facilitate muscle performance. To be used for the improvement of muscle tone	and facilitate muscle performance. To be used for the improvement of muscle tone and firmness, and for strengthening muscles in the arms, abdomen, legs, and buttocks. Not
	and firmness, and for strengthening muscles in the arms, abdomen, legs, and buttocks. Not intended for use in any therapy or for the treatment of any medical conditions or	intended for use in any therapy or for the treatment of any medical conditions or diseases.  PL-029K12 and PL-029K13 are also intended
	diseases.	to temporarily increase local blood circulation in the healthy muscles of lower extremities.
	PL-029K5BL, PL-029K15, and PL-029T are also intended to temporarily increase local blood circulation in the healthy muscles of lower extremities.	Heating: The device of PL-029K13 is intended for temporary relief of minor aches and pains.
	Heating: The device of PL-029T is intended for	Prescription Use:
	temporary relief of minor aches and pains.	PL-029K12 and PL-029K13 are intended for the following use:
	Prescription Use:	- Symptomatic relief and management of chronic, intractable pain
	TENS: PL-029K5BL, PL-029K15, and PL-029T are	- Adjunctive treatment for post-surgical and post-trauma acute pain
	intended for the following use: - Symptomatic relief and management of chronic, intractable pain	- Relief of pain associated with arthritis - Temporary relaxation of muscle spasm - Prevention or retardation of disuse atrophy
	<ul> <li>Adjunctive treatment for post-surgical and post-trauma acute pain</li> <li>Relief of pain associated with arthritis</li> </ul>	Muscle re-education     Maintaining or increasing range of motion     Increase of local blood flow in the treatment area
	PMS: PL-029K5BL, PL-029K15, and PL-029T are	- Prevention of post-surgical venous thrombosis through immediate stimulation of calf muscles

		intended for the following use:	
		- Temporary relaxation of muscle spasm - Prevention or retardation of disuse atrophy	
		- Muscle re-education	
		- Maintaining or increasing range of motion	
		- Increase of local blood flow in the treatment	
		area	
		- Prevention of post-surgical venous	
		thrombosis through immediate stimulation of	
		calf muscles	
Prescription or		OTC and Prescription	OTC and Prescription
Power Source(s)		Rechargeable or non-rechargeable battery	Rechargeable or non-rechargeable battery
- Method of Li Isolation	ne Current	Battery Supply	Battery Supply
- Patient Leakage Current:		N/A	N/A
Normal Condit			
- Patient Leakage Current: Single Fault Condition (μA)		N/A	N/A
Average DC cu		0	0
	en device is on but		
Number of Ou	being applied (mA)	PL-029K5BL: 6-8	
Number of Ou	tput Modes	PL-029K3BL: 0-8 PL-029K15: 1-4	8
		PL-029K13. 1-4 PL-029T: 8	
Number of Ou	tput	1-2	1
-Synchronous/	-	N/A	N/A
-Method of Ch	annel Isolation	N/A	N/A
Regulated Cur	rent or Regulated	Voltage	Voltage
Voltage?  Software/Firm		Yes	Yes
Microprocesso		res	ies
Automatic Ove		No	No
Automatic No-	-Load Trip?	Yes	Yes
Automatic Shu	it Off?	Yes	Yes
User Override	Control?	Yes	Yes
Indicator	On/Off Status?	Yes	Yes
Display:	Low Battery?	Yes	Yes
	Voltage/	Yes	Yes
	Current Level?		
Timer Range (minutes)		PL-029K5BL: 10-540	PL-029K12: 10-540
		PL-029K15: 10-60	PL-029K13: 10-60
- · · ·		PL-029T: 10-60	177
Compliance winds Standards?		Yes	Yes
Compliance with 21 CFR 898?		Yes	Yes
Weight (g)		PL-029K5BL: 40	PL-029K12: 25
		PL-029K15: 35	PL-029K13: 105
		PL-029T: 70	
Dimensions (mm) [L x W x D]		PL-029K5BL: 66x56x18 PL-029K15:70x62x16	PL-029K12: 69.5x36.8x14 PL-029K13: 88.5x76.5x18.2
		PL-029T: 95x55x15	
Housing Mater Construction		Silicone & ABS	Silicone & ABS
Functions and		Electrical stimulation and heat	Electrical stimulation and heat
Maximum skin temperature		43°C	43°C
Waveform		Biphasic	Biphasic
Shape		Rectangular	Rectangular
Shape			<i>-</i>

Maximum output voltage (Volts	PL-029K5BL: 65	PL-029K12: 57.6
+/- 20%) at $500\Omega$	PL-029K15: 36	PL-029K13: 46.0
17 2070) at 30022	PL-029T: 46	
Maximum output voltage (Volts	PL-029K5BL: 132	PL-029K12: 96.0
+/- 20%) at 2K $\Omega$	PL-029K15: 72	PL-029K13: 90.4
., _,, ., _,	PL-029T: 92	
Maximum output voltage (Volts	PL-029K5BL: 180	PL-029K12: 134
+/- 20%) at $10k\Omega$	PL-029K15: 125	PL-029K13: 124
,	PL-029T: 136	
Maximum output current (mA +/-	PL-029K5BL: 130	PL-029K12: 115.2
20%) at $500\Omega$	PL-029K15: 72	PL-029K13: 92.0
	PL-029T: 92	
Maximum output current (mA +/-	PL-029K5BL: 66	PL-029K12: 48.0
20%) at 2K $\Omega$	PL-029K15: 36	PL-029K13: 45.2
	PL-029T: 47	
Maximum output current (mA +/-	PL-029K5BL: 18	PL-029K12: 13.4
20%) at 10KΩ	PL-029K15: 12.5	PL-029K13: 12.4
. ,	PL-029T: 13.6	
Pulse Width (µSec)	PL-029K5BL: 50~500	PL-029K12: 100
(4)	PL-029K15: 100	PL-029K13: 92
	PL-029T: 104	
Pulse period (mSec)	PL-029K5BL: 2~1000	PL-029K12: 6.4~840
- 3.33 F 3.33 (3.33 (3.3)	PL-029K15: 10~1000	PL-029K13: 5.6~806
	PL-029T: 6~833	
Frequency (Hz)	PL-029K5BL: 1~500	PL-029K12: 1.2~156.2
	PL-029K15: 1~100	PL-029K13: 1.2~178.5
	PL-029T: 1.2~167	
Maximum Phase charge (μC) at	PL-029K5BL: 78	PL-029K12: 23.0
500Ω	PL-029K15: 14.5	PL-029K13: 16.9
	PL-029T: 19.3	
Maximum average current density	PL-029K5BL: 1.86	PL-029K12: 0.21
$(mA/cm^2)$ at $500\Omega$	PL-029K15: 0.35	PL-029K13: 0.34
	PL-029T: 0.40	
Maximum average power density	PL-029K5BL: 28	PL-029K12: 1.44
$(mW/cm^2)$ at $500\Omega$	PL-029K15: 1.68	PL-029K13: 1.26
	PL-029T: 2.22	
Burst Mode (a) Pulse per	N/A	N/A
burst		
(b) Burst per	N/A	N/A
second		
(c) Burst-duration	N/A	N/A
(sec)		
(d) Duty Cycle	N/A	N/A
ON time (sec)	1~20	3.4~20
OFF time (sec)	0~10	1~2.5
Additional features	N/A	N/A

## 7. Substantial Equivalence

The differences between the subject device in this submission and the predicate device in K182203 do not raise any new issues of safety or effectiveness, as discussed below.

Both the subject device and the predicate device have the technical specifications that are within the range of other FDA cleared transcutaneous electrical nerve stimulators. For example, the difference of maximum output voltage, maximum output current, maximum phase charge, maximum average current density, and maximum average power density is 7.4V (65V versus 57.6V at  $500\Omega$ ), 14.8mA (130mA versus 115.2mA at  $500\Omega$ ),  $55\mu$ C ( $78\mu$ C versus  $23\mu$ C at  $500\Omega$ ), 1.52mA/cm² (1.86mA/cm² versus 0.34mA/cm² at  $500\Omega$ ), and 26.56 mW/cm² (28mW/cm² versus 1.44mW/cm² at  $500\Omega$ ), respectively, between the subject device and the predicate device. In addition, the output voltage, output current,

phase charge, average current density, and average power density are set and delivered at a one-by-one level by the user to a strong but comfortable sensation, so the output voltage, output current, phase charge, average current density, and average power density delivered are therapeutically effective with either device. Therefore, the differences of maximum output voltage, maximum output current, maximum phase charge, maximum average current density, and maximum average power density between the subject device and the predicate device does not raise new questions of safety or effectiveness.

The difference of frequencies between the subject device and the predicate device does not raise new types of safety or effectiveness questions because (i) both devices are using standard TENS stimulation frequencies, (ii) random frequency stimulation is within the standard practice for TENS devices and is used in the predicate device, and (iii) the effectiveness of TENS is not dependent on the use of modulated pulse trains such as those generated by the predicate device, and can be equally achieved through the random frequency stimulation as delivered by the subject device. Similarly, the same case could be seen in the predicate K182203: While the K182203-cleared device has a pulse width of 100  $\mu$ Sec, its predicate devices are with pulse widths that range from 70-300  $\mu$ Sec. Therefore, the difference of pulse width also does not raise new issues of safety or effectiveness.

In addition, the subject device PL-029T itself also has a heating mode, and is comparable to the predicate device PL-029K13 that could deliver electrical stimulation and heat separately and simultaneously in K182203. The subject device delivers heat through the substantially equivalent technology to the predicate device, and does not raise new concerns of safety or effectiveness.

As demonstrated, the differences between the subject and predicate devices do not affect the intended use or alter the fundamental technology of the device. There are no new safety or effectiveness issues concerning the subject device, which offers substantially equivalent technical specifications, features, intended use, safety, and effectiveness to the predicate device.

#### 8. Non-Clinical Tests Performed

Non-clinical tests were performed on the subject device in order to validate the design and to assure conformance with the following voluntary design standards in connection with medical device electrical safety, and electromagnetic compatibility.

- (a) ANSI AAMI ES60601-1 "Medical Electrical Equipment Part 1: General requirements for basic safety and essential performance (IEC 60601-1)".
- (b) IEC 60601-1-2 "Medical Electrical Equipment Part 1-2: General Requirements for Basic Safety and Essential Performance Collateral standard: Electromagnetic Compatibility Requirements and Tests".
- (c) IEC 60601-2-10 "Medical electrical equipment Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators".
- (d) ISO 10993-5 "Biological evaluation of medical devices -- Part 5: Tests for In Vitro Cytotoxicity".
- (e) ISO 10993-10 "Biological evaluation of medical devices Part 10: Tests for Irritation and Skin Sensitization".

In addition to the compliance of voluntary standards, the verification of software used in the subject device has been carried out according to the FDA Guidance for the Content of Premarket Submissions for Software Contained in Medical Devices.

The electrode pads and garments cleared in the predicate K182203 and other biocompatible electrodes described in this submission could apply to the subject device, such as conductive patches/pads, shoes, belts, wraps, sleeves, socks, insoles, gloves, shirts, shorts, pants, and suits, and will not change the

safety or effectiveness. Concerns of the safe and proper use of the electrodes have been fully addressed through details in the Labeling.

# 9. Conclusion

The tests and comparison performed demonstrate the subject device is substantially equivalent to the predicate device. Therefore, the subject device is as safe and effective as the predicate device that has been legally marketed in the United States.